



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION
NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/economy

Raynor Garage Doors
1101 East River Road, P.O. Box 448
Dixon, IL 61021

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Showcase / Masterpiece / TC200 Steel Sectional Garage Doors up to 18'-0" Wide

APPROVAL DOCUMENT: Drawing No. P-3309, titled "Spec. Wind Load Showcase/Masterpiece/TC200 18'-0" wide max. door width", sheets 1 through 3 of 3, dated 01/04/2008, with last revision B dated 11/18/2008, prepared by Raynor Garage Doors, signed and sealed by Richard A. Baumann, P.E. on 12/22/2015, bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: A permanent label with the manufacturer's name or logo, manufacturing address, model number, the positive and negative design pressure rating, indicate impact rated if applicable, installation instruction drawing reference number, approval number (NOA), the applicable test standards, and the statement reading 'Miami-Dade County Product Control Approved' is to be located on the door's side track, bottom angle, or inner surface of a panel.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # 13-0829.14 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.



[Signature]
03/29/2016

NOA No. 15-0714.08
Expiration Date: December 24, 2018
Approval Date: April 7, 2016
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS


1. Drawing No. **P-3309**, titled "Spec. Wind Load Showcase/Masterpiece/TC200 18'-0" wide max. door width", sheets 1 through 3 of 3, dated 01/04/2008, with last revision B dated 11/18/2008, prepared by Raynor Garage Doors, signed and sealed by Richard A. Baumann, P.E. on 12/22/2015.

B. TESTS "Submitted under NOA # 10-0420.03"

1. Test report on Forced Entry Resistance Test, per FBC 2411 3.2.1, TAS 202-94 of two 16'x 7' Sectional Garage Doors, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0706-10**, dated 08/10/2010, signed and sealed by Vinu J. Abraham, P.E.

"Submitted under NOA # 08-0709.10"

2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of an 18'x 8' Showcase/Masterpiece/TC200 Sectional Steel Garage Door, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0107-08**, dated 03/12/2008, signed and sealed by Vinu J. Abraham, P.E.
3. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of an 18'x 7' Showcase/Masterpiece/TC200 Sectional Steel Garage Door, prepared by Hurricane Test Laboratory, LLC, Test Report No. **G493-0205-08**, dated 03/13/2008, signed and sealed by Vinu J. Abraham, P.E.
4. Test report on Tensile Test per ASTM E8, of steel sheet, prepared by Certified Testing Laboratories, Test Report No. 0156Q, dated 04/01/2008, signed and sealed by Ramesh Patel, P.E.
5. Test report on Salt Spray per ASTM B117 of painted G40 galvanized painted steel, prepared by Wendler Engineering Services, Inc., dated 09/25/2008, signed and sealed by Richard A. Baumann, P.E.


03/29/2016

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 15-0714.08
Expiration Date: December 24, 2018
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C. CALCULATIONS “Submitted under NOA # 08-0709.10”

1. Jamb attachment verification calculations, prepared by Wendler Engineering Services, Inc., dated 05/16/2008, signed and sealed by Richard A. Baumann, P.E.

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS


1. Test report on Surface Burning Characteristics, per ASTM E84 of Type IX EPS, Report No. **3147467SAT-001**, prepared by Intertek Testing Services, NA, Inc., dated 04/10/2008, signed by Chris Bowness, P.E.
2. Test report on Self-Ignition Temperature per ASTM D1929 of Type IX EPS, prepared by Intertek Testing Services, NA, Test Report No. **3147467SAT-002**, dated 06/12/2008, signed by Chris Bowness, P.E.
3. Notice of Acceptance No. **11-0926.07**, issued to Dyplast Products LLC., for their EPS Block Type Insulation, approved on 11/10/2011, and expiring on 01/11/2017.

F. STATEMENTS

1. Statement letter of code conformance to the 5th edition (2014) FBC and of no financial interest issued by Wendler Engineering Services, Inc., dated 09/09/2015, signed and sealed by Richard A. Baumann, P.E.

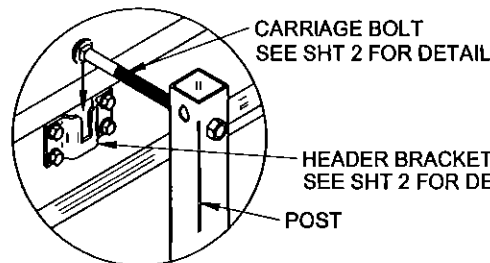
“Submitted under NOA # 13-0829.14”
2. Statement letter of code conformance to 2010 FBC issued by Wendler Engineering Services, Inc., dated 08/26/2013, signed and sealed by Richard A. Baumann, P.E.

“Submitted under NOA # 08-0709.10”
3. Statement letter of no financial interest issued by Wendler Engineering Services, Inc., dated 05/19/2008, signed and sealed by Richard A. Baumann, P.E.

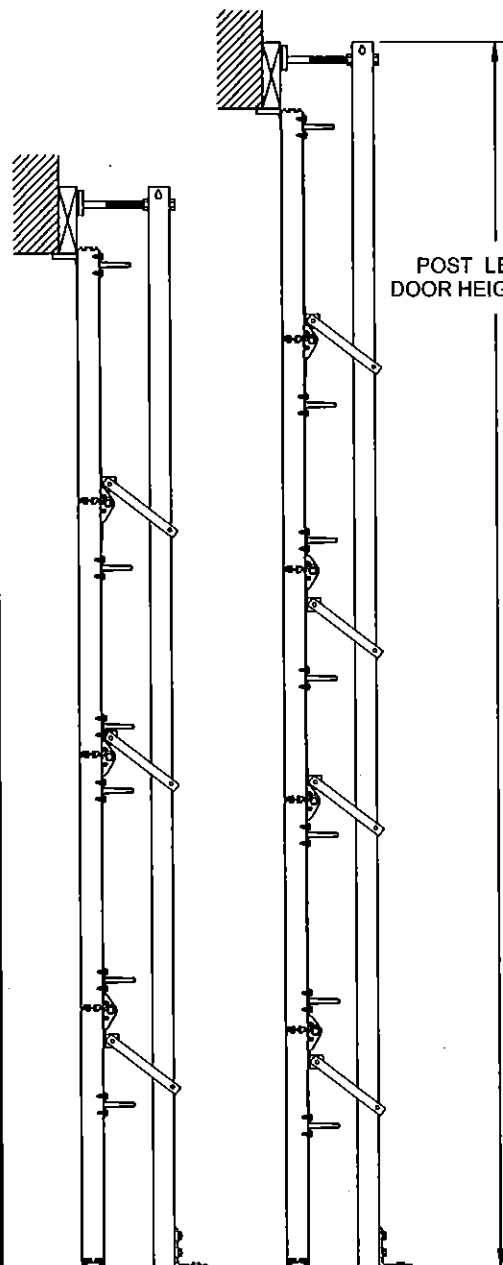


103/29/2016

Carlos M. Utrera, P.E.
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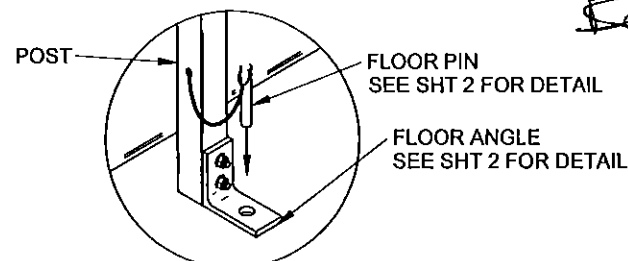


POST ENGAGEMENT
HEADER CONNECTION DETAIL



4 SECTION
HIGH DOOR

5 SECTION
HIGH DOOR



POST ENGAGEMENT FLOOR
CONNECTION DETAIL

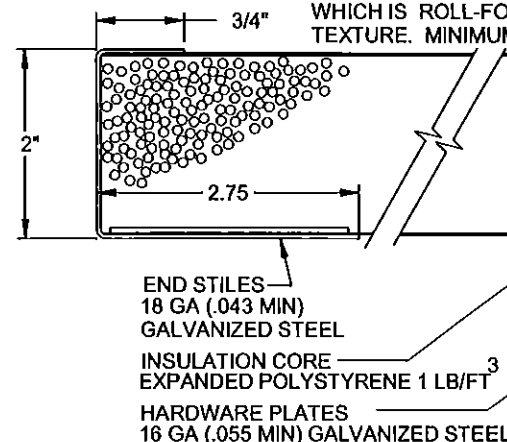
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 15-0714.08
Expiration Date 12/24/2018
By [Signature]
Miami Door Product Control

INTERIOR SKIN

.0159 THICK G-40 GALVANIZED STEEL WITH AN EPOXY PRIMER AND BAKED ON POLYESTER FINISH WHICH IS ROLL-FORMED WITH WOOD GRAIN TEXTURE AND STAMPED WITH EMBOSSED PANELS FOR SHOWCASE AND MASTERPIECE OR SMOOTH FOR TC200. MINIMUM YIELD STRENGTH = 13040 PSI

EXTERIOR SKIN

.0159 THICK G-40 GALVANIZED STEEL WITH AN EPOXY PRIMER AND BAKED ON POLYESTER FINISH WHICH IS ROLL-FORMED WITH WOOD GRAIN TEXTURE. MINIMUM YIELD STRENGTH = 13040 PSI.



END STILES
18 GA (.043 MIN)
GALVANIZED STEEL
INSULATION CORE
EXPANDED POLYSTYRENE 1 LB/FT³
HARDWARE PLATES
16 GA (.055 MIN) GALVANIZED STEEL

CENTER HINGE
SEE DETAIL ON SHT 2

SECTION SCHEDULE					
DOOR HEIGHT	TOP SECTION	INTERMEDIATE SECTION	INTERMEDIATE SECTION	INTERMEDIATE SECTION	BOTTOM SECTION
6' 6"	19 1/2"	19 1/2"	19 1/2"	19 1/2"	19 1/2"
6' 8"	21"	19 1/16"	19 1/16"	19 1/16"	21"
6' 9"	21"	19 1/2"	19 1/2"	19 1/2"	21"
7' 0"	21"	21"	21"	21"	21"
8' 0"	19 1/16"	19 1/16"	19 1/16"	19 1/16"	19 1/16"

SPRING COUNTERBALANCE
SPRING WIRE INDIVIDUALLY
CALCULATED TO
COUNTERBALANCE DOOR
QUANTITY AND SIZE OF SPRINGS
WILL VARY

TOP FIXTURE
FASTENED WITH (3) 1/4" X
5/8" SHEET METAL SCREWS.
SEE SHT 2 FOR DETAIL

STEEL U-BAR
REINFORCEMENT
FASTENED TO ALL CENTER
AND END STILES USING (2) 1/4"
X 5/8" SHEET METAL SCREWS
AT EACH LOCATION. SEE SHT
2 FOR DETAILS

HARDWARE PLATES
16 GA (.055 MIN)
GALVANIZED STEEL

CORNER BRACKET
FASTENED WITH (4) 1/4" X 5/8"
SHEET METAL SCREWS.
SEE SHT 2 FOR DETAIL

VENTS (OPTIONAL)
OPENINGS MAY BE LOCATED IN
DOOR AS REQUIRED BY CODE

DOORS TESTED PER TAS 202 FOR
STATIC AIR PRESSURE

TESTED PER TAS 201, TAS 203
FOR
LARGE MISSILE IMPACT AND
CYCLIC WIND PRESSURE

DESIGN PRESSURE +45.3 / -51.2

PERIMETER SEAL
NAILED 4" O.C. WITH 4d
STEEL NAILS

JAMBS
2X6 WOOD JAMB
SEE SHT 3 FOR
ATTACHMENT

TRACK BRACKET
SEE DETAIL ON SHT 2

HEX HEAD LAG SCREW
(2) PER BRACKET
SEE DETAIL ON SHT 2

TRACK BOLT
SEE DETAIL ON SHT 2

WHIZ LOCK NUT

TRACK ROLLER
SEE DETAIL ON SHT 2

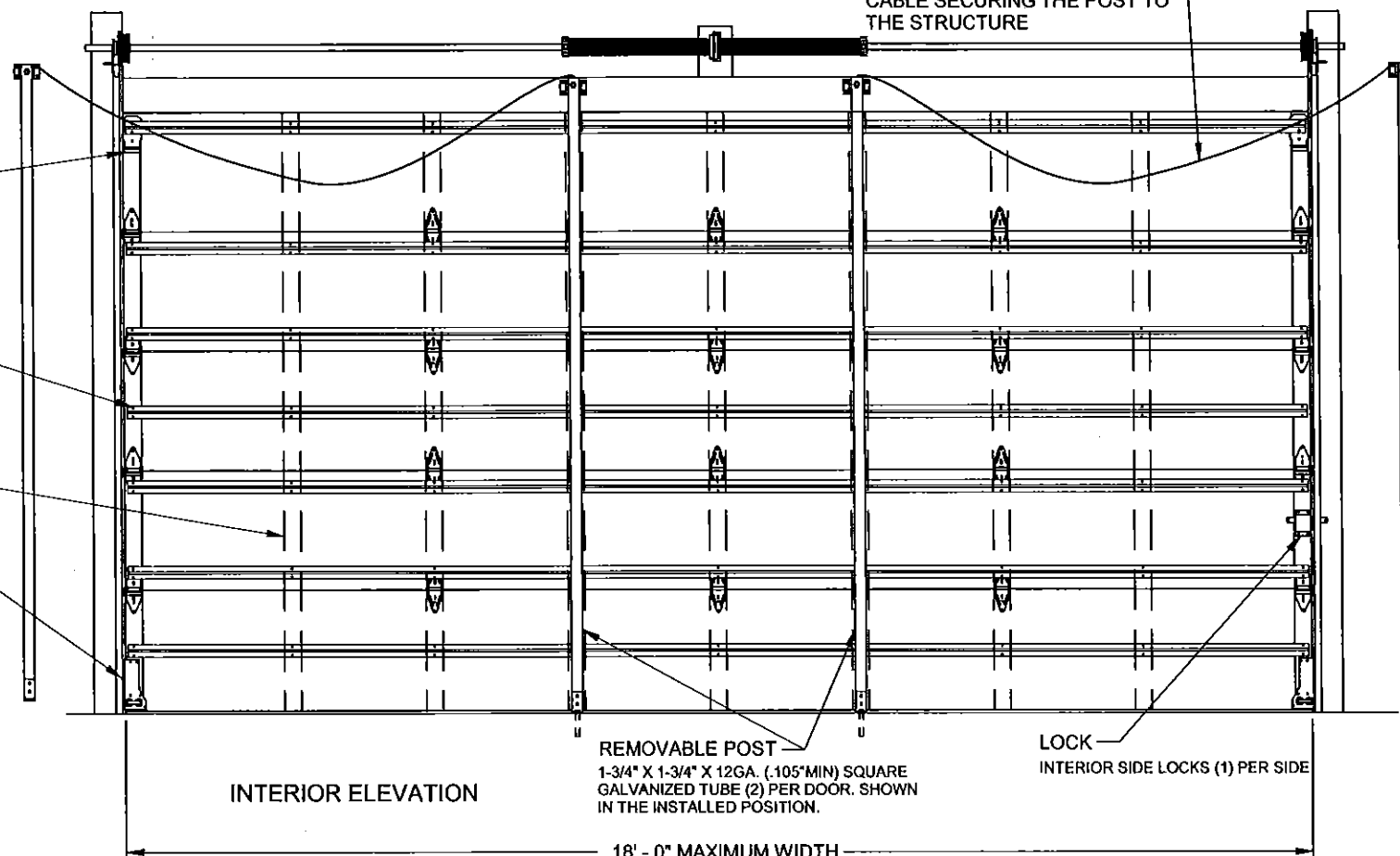
TRACK
SEE DETAIL ON SHT 2

RETAINING NUT
7/16" PUSH ON RETAINING
NUT (1) REQUIRED PER ROLLER
SEE DETAIL ON SHT 2

SINGLE EDGE HINGE
SEE DETAIL ON SHT 2

POST SHOWN IN STORED POSITION

POST RETENTION CABLE
(1) PER POST, 3/32" GALVANIZED
CABLE SECURING THE POST TO
THE STRUCTURE



INTERIOR ELEVATION

REMOVABLE POST
1-3/4" X 1-3/4" X 12GA. (.105" MIN) SQUARE
GALVANIZED TUBE (2) PER DOOR. SHOWN
IN THE INSTALLED POSITION.

LOCK
INTERIOR SIDE LOCKS (1) PER SIDE

18' - 0" MAXIMUM WIDTH

REV.	DESCRIPTION	ECO	DATE
B	1) ADDED CABLE / CHAIN NOTE, 2) CHANGED TO HEADLESS CLEVIS PIN AND ADDED SPLIT RING	5567.001	11/18/08
A	RELEASED TO PRODUCTION	5319.001	9/29/08
REV.	DESCRIPTION	ECO	DATE

SCALE: NONE

DRAWN BY: G. WEDEKIND

CHECKED BY: G. WEDEKIND

DATE: 01/04/08

ECO: 5319.001

RAYNOR

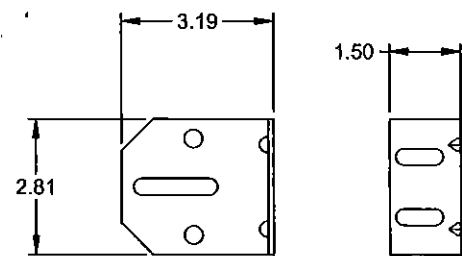
1101 EAST RIVER ROAD
DIXON, IL 61021

TITLE:
SPEC, WINDLOAD
SHOWCASE / MASTERPIECE / TC200
18'-0" WIDE MAX. DOOR WIDTH

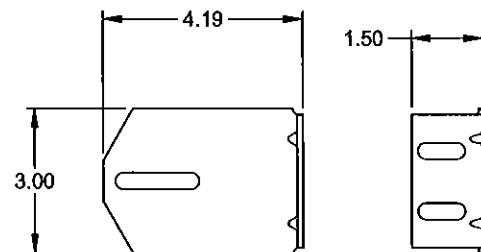
NO. P-3309

SHEET
1 OF 3

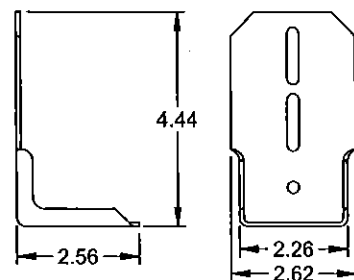
REV
B



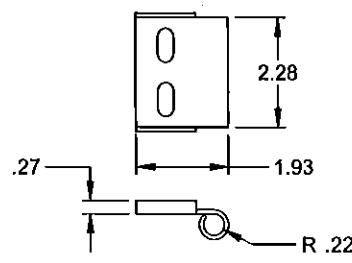
SCALE 1:2
3" TRACK BRACKET
.116 GALV STEEL



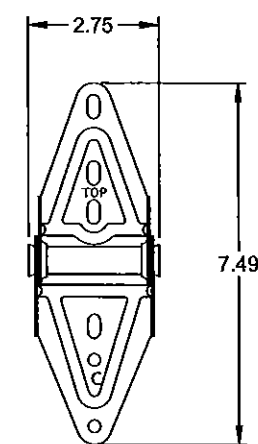
SCALE 1:2
4" TRACK BRACKET
.116 GALV. STEEL



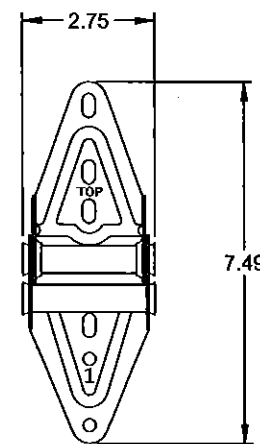
SCALE 1:2
TOP FIXTURE
.086 GALV. STEEL



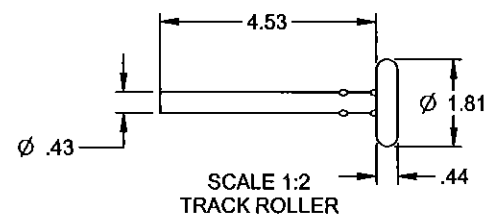
SCALE 1:2
ROLLER CARRIER
.086 GALV. STEEL
ATTACHED TO TOP FIXTURE WITH (2)
TRACK BOLTS AND WHIZ NUTS



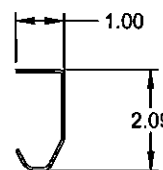
SCALE 1:2
CENTER HINGE
.045 GALV. STEEL



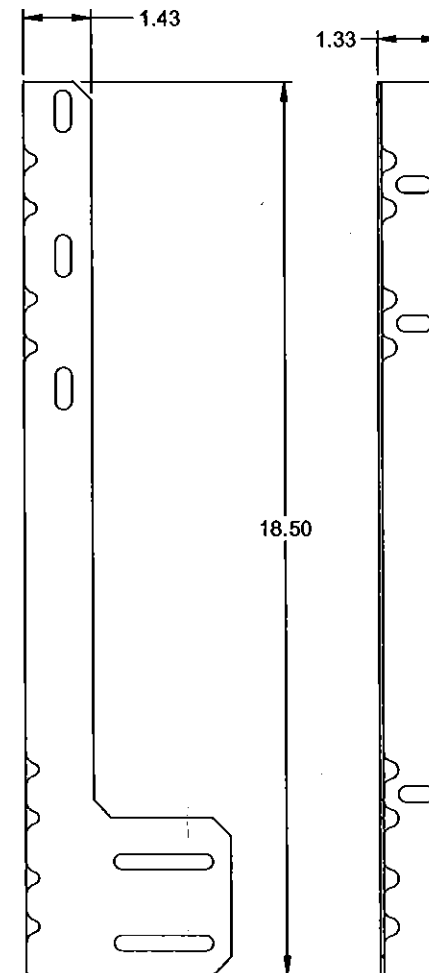
SCALE 1:2
EDGE HINGE
.086 GALV. STEEL



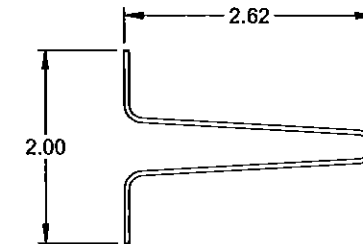
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TRACK ROLLER



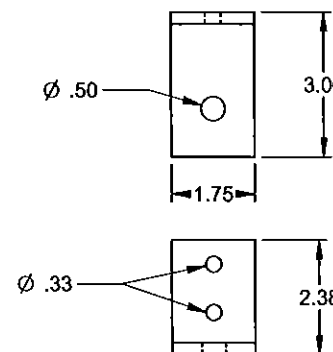
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TRACK
.086 GALV. STEEL



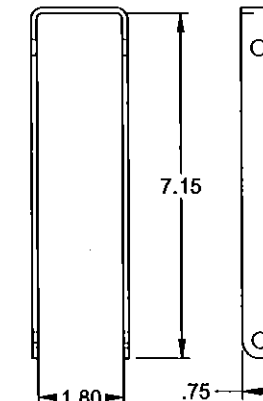
SCALE 1:2
JAMB ANGLE
.078 GALV. STEEL



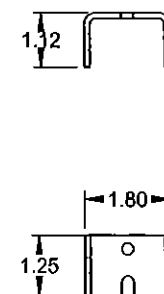
SCALE: 1:1
STEEL U-BAR DETAIL
18 GA. (.049" MIN) GALVANIZED
HIGH TENSILE STEEL
80 KSI MINIMUM YIELD



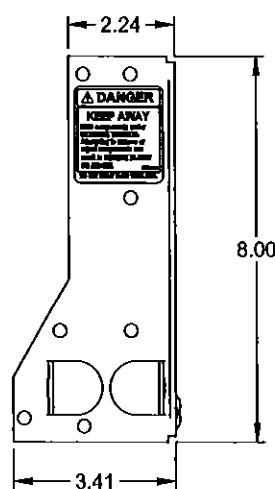
SCALE 1:2
FLOOR ANGLE
.250 GALV. STEEL



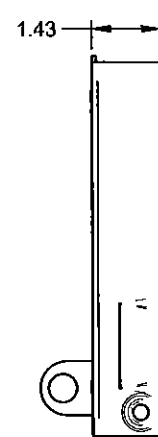
SCALE 1:2
POST STRAP
.116 GALV. STEEL



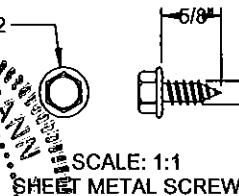
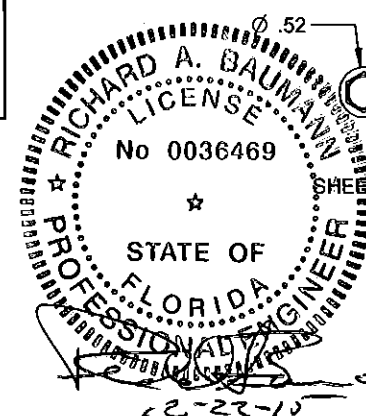
SCALE 1:2
POST STRAP BRACKET
.116 GALV. STEEL



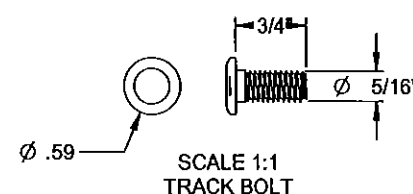
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CORNER BRACKET
.086 GALV. STEEL



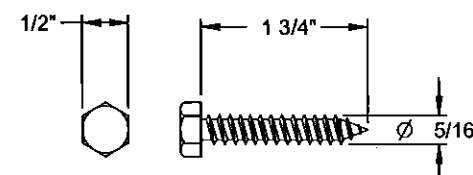
SCALE 1:1
RETAINING NUT



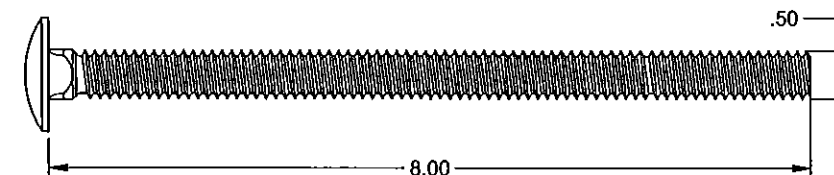
SCALE 1:1
SHEET METAL SCREW



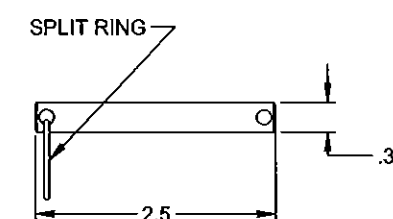
SCALE 1:1
TRACK BOLT



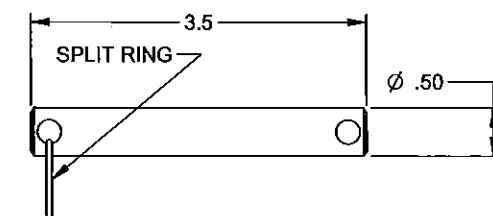
SCALE 1:1
HEX HEAD LAG SCREW



SCALE 1:1
CARRIAGE BOLT




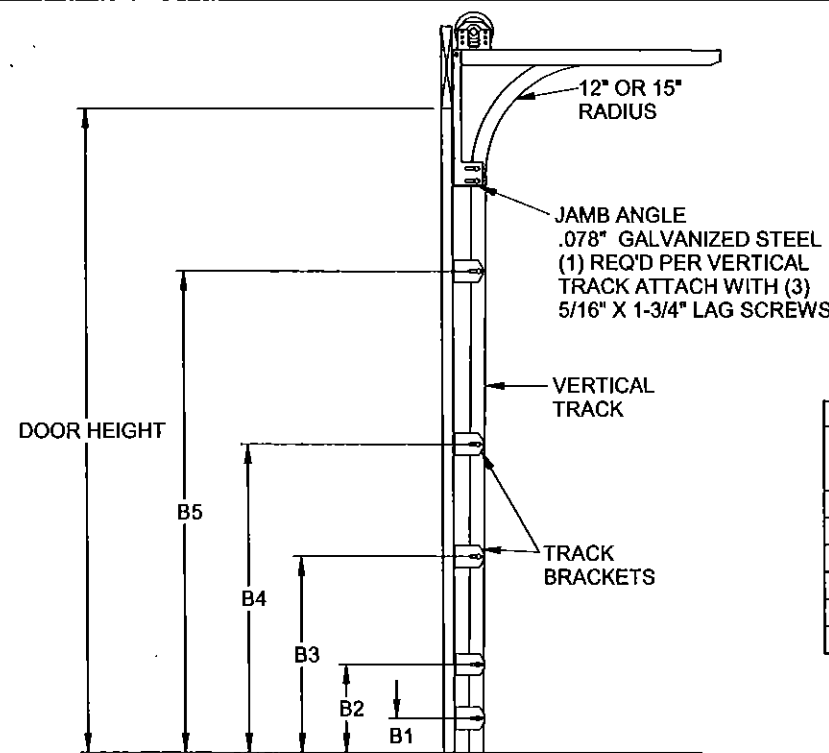
SCALE 1:1
CLEVIS PIN (B2)



SCALE 1:1
CLEVIS PIN (B2)

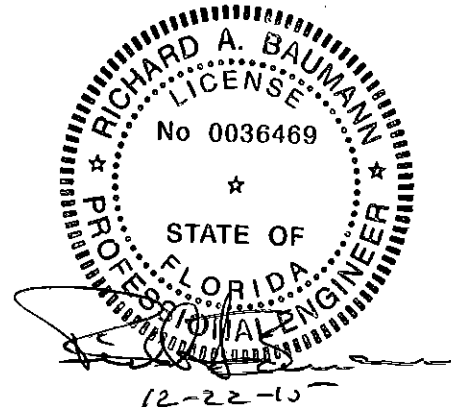
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-0714.08
Expiration Date 12/24/2018
By *[Signature]*
Miami / Product Control

REV.	DESCRIPTION	ECO	DATE	SCALE: NONE	 1101 EAST RIVER ROAD DIXON, IL 61021	TITLE: SPEC, WINDLOAD SHOWCASE /TC200 18'-0" WIDE MAX. DOOR WIDTH NO. P-3309	SHEET 2 OF 3	REV B
				DRAWN BY: G. WEDEKIND				
				CHECKED BY: G. WEDEKIND				
				DATE: 01/04/08				
				ECO: 5319.001				



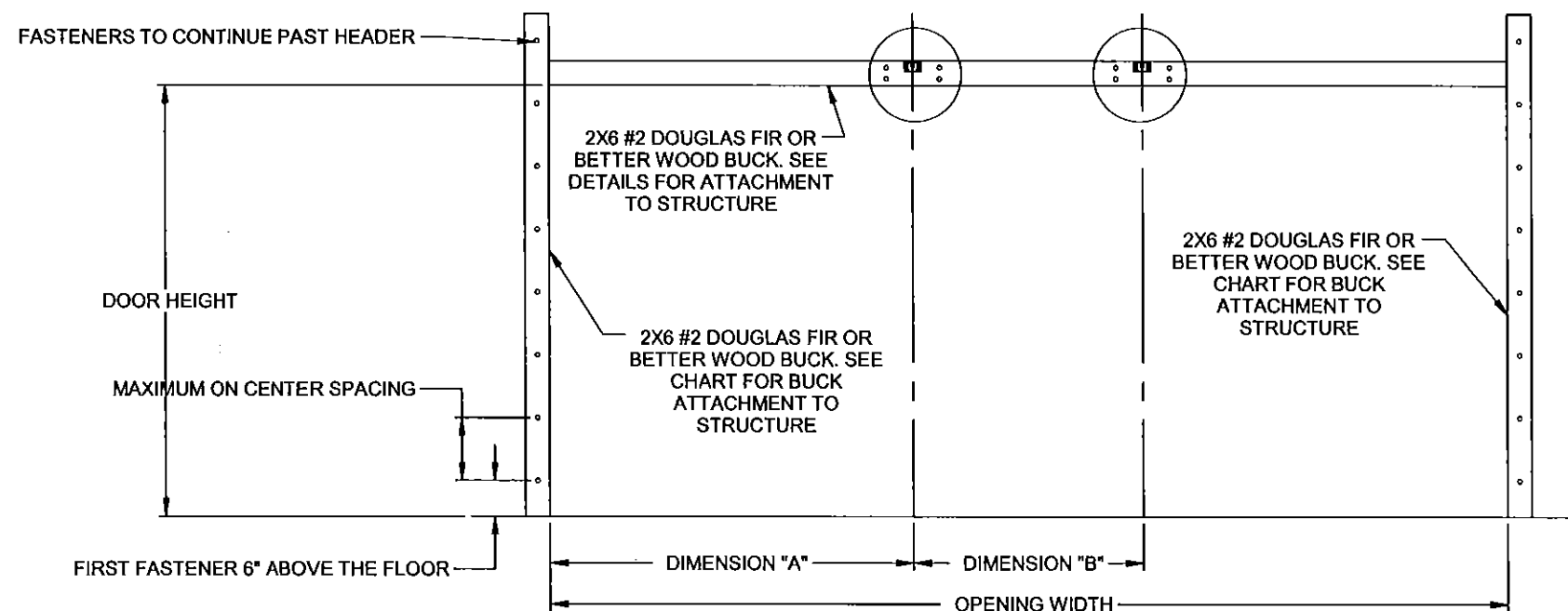
TRACK BRACKET SPACING					
DOOR HEIGHT	B1	B2	B3	B4	B5
6' - 6"	3"	12"	30"	48"	-----
6' - 8"	3"	12"	30"	48"	-----
6' - 9"	3"	12"	30"	48"	-----
7' - 0"	3"	12"	30"	48"	63"
7' - 6"	3"	12"	30"	48"	69"
8' - 0"	3"	12"	30"	48"	75"

TYPICAL TRACK INSTALLATION

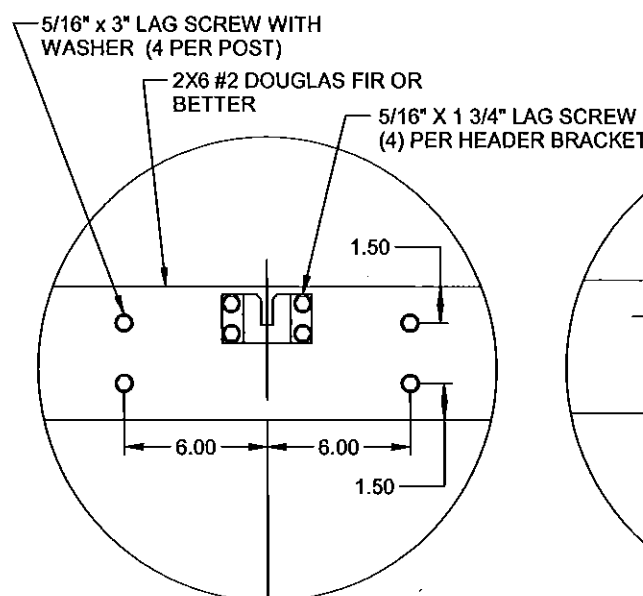


JAMB ATTACHMENT NOTES

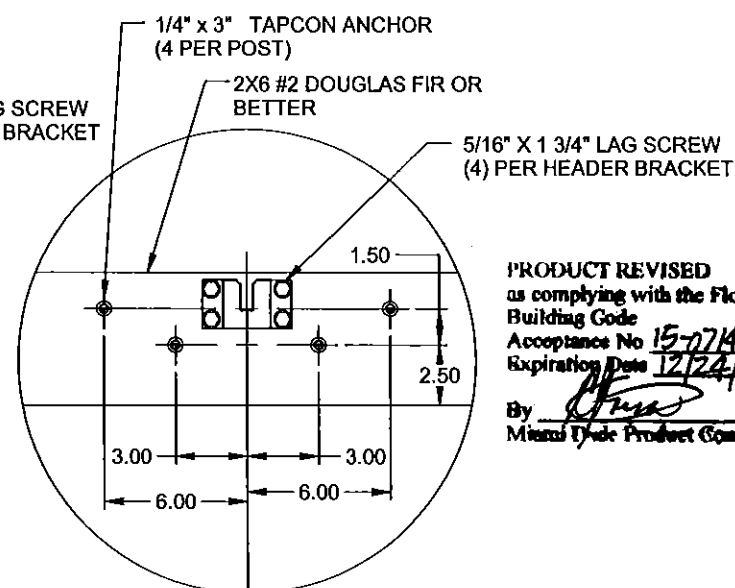
1. 1/4" DIAMETER ANCHORS REQUIRE 5/8" MIN. O.D. STEEL WASHER.
2. 5/16" AND 3/8" DIAMETER FASTENERS REQUIRE 7/8" MIN O.D. STEEL WASHER.
3. FASTENER SPACING BASED ON 18" WIDE DOOR.
4. DESIGN OF THE SUPPORTING STRUCTURE SHALL BE THE SOLE RESPONSIBILITY OF THE BUILDING DESIGNER AND SHALL BE DESIGNED FOR THE LOADS LISTED ON THIS DRAWING.



DOOR WIDTH FT	DOOR HEIGHT FT	LOAD PER JAMB		LOAD AT POST		LOAD AT POST		DIMENSION "A" INCHES	DIMENSION "B" INCHES	DESIGN PRESSURE		TOTAL DOOR	
		POS	NEG	POS	NEG	POS	NEG			POS	NEG	POS	NEG
10	7	450	509	568	642	568	642	34.06	51.88	45.3	51.2	3171	3584
	7.5	482	545	608	688	608	688					3398	3840
	8	514	581	649	733	649	733					3624	4096
12	7	648	733	827	909	827	909	49.06	45.88	45.3	51.2	3805	4301
	7.5	695	785	872	960	872	960					4077	4608
	8	741	837	917	1010	917	1010					4349	4915
14	7	767	867	926	1021	926	1021	58.06	51.88	45.3	51.2	4439	5018
	7.5	822	929	978	1080	978	1080					4757	5376
	8	877	991	1030	1138	1030	1138					5074	5734
15	7	807	912	966	1068	966	1068	61.06	57.88	45.3	51.2	4757	5376
	7.5	864	977	1022	1128	1022	1128					5096	5760
	8	922	1042	1088	1198	1088	1198					5436	6144
16	7	965	1081	1126	1236	1126	1236	73.06	45.88	45.3	51.2	5074	5734
	7.5	1034	1169	1212	1322	1212	1322					5436	6144
	8	1103	1247	1288	1408	1288	1408					5798	6554
17	7	1045	1181	1225	1335	1225	1335	79.06	45.88	45.3	51.2	5391	6093
	7.5	1119	1265	1308	1418	1308	1418					5776	6528
	8	1194	1349	1393	1503	1393	1503					6161	6963
18	7	1084	1225	1268	1378	1268	1378	82.06	51.88	45.3	51.2	5708	6451
	7.5	1162	1313	1356	1466	1356	1466					6116	6912
	8	1239	1400	1443	1553	1443	1553					6523	7373



WOOD FRAME CONSTRUCTION



2000 PSI CONCRETE MINIMUM

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 15-074-08
Expiration Date 12/24/2018
By [Signature]
Miami Trade Product Control

JAMB MATERIAL	FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE	ALLOWABLE TENSION	MAXIMUM ON CENTER
GROUT FILLED BLOCK	5/16" DIA X 3 1/4" LONG ITW TAPCON	1 3/4"	4"	487	37 3/4"
3192 PSI CONCRETE	1/4" DIA X 3 1/4" LONG ITW TAPCON	1 3/4"	1"	510	39 3/4"
2899 PSI CONCRETE	5/16" DIA X 3 3/4" LONG ITW TAPCON	2 1/4"	1 9/16"	713	55 1/2"
2000 PSI CONCRETE	3/8" DIA X 3 1/2" POWER STUD ANCHOR	1 5/8"	1 7/8"	360	28"
4000 PSI CONCRETE	3/8" DIA X 3 1/2" POWER STUD ANCHOR	1 5/8"	1 7/8"	570	44 1/4"
WOOD DOUGLAS FIR (G=46)	5/16" DIA. X 3 1/2" LAG SCREW	1 1/2"	1"	353	22 1/2"
WOOD SYP (G=55)	5/16" DIA. X 3 1/2" LAG SCREW	1 1/2"	1"	460	35 3/4"

REV.	DESCRIPTION	ECO	DATE	SCALE: NONE	<p>1101 EAST RIVER ROAD DIXON, IL 61021</p>	<p>TITLE: SPEC, WINDLOAD SHOWCASE /TC200 18'-0" WIDE MAX. DOOR WIDTH</p>	<p>NO. P-3309</p>	<p>SHEET 3 OF 3</p>	<p>REV B</p>
				DRAWN BY: G. WEDEKIND					
				CHECKED BY: G. WEDEKIND					
				DATE: 01/04/08 ECO: 5319.001					